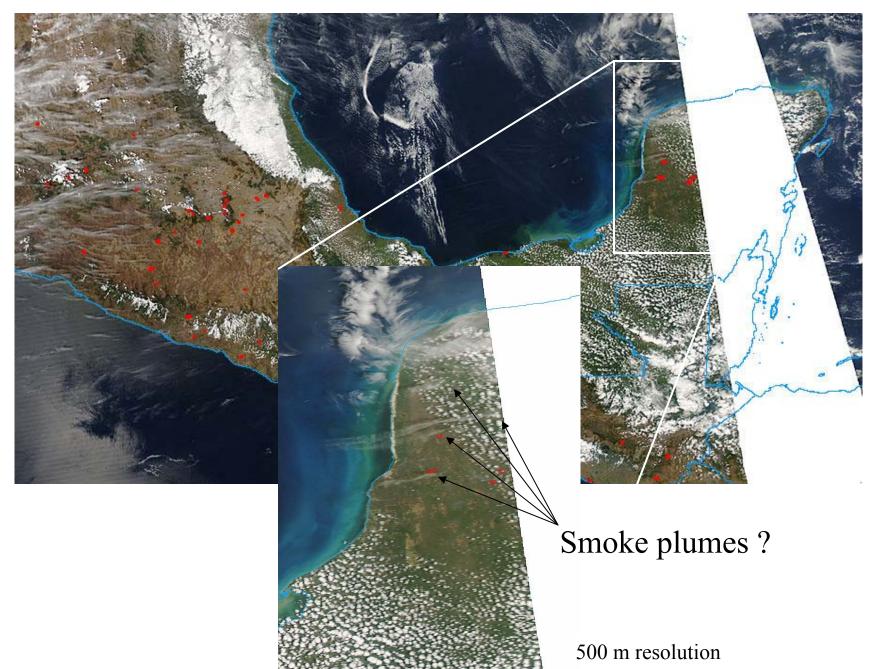


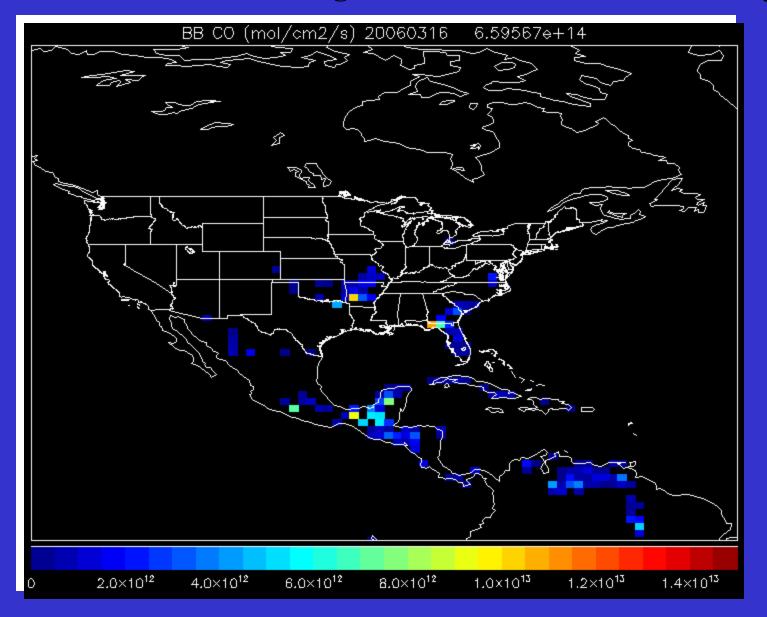
Terra MODIS
March 16, 2006
AOD ~ 0.2-0.4

Aqua MODIS March 16, 2006 AOD ~ 0.4-0.8

Aqua MODIS, March 17



RAQMS NRT Biomass Burning CO Emissions: Current FX Cycle



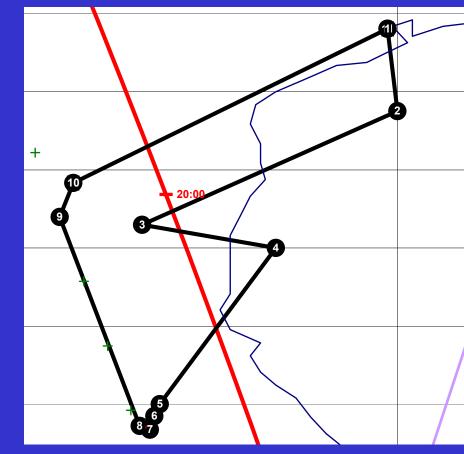
MODIS fire counts from 12Z 03/16 (Thur) -12Z 03/17 (Fri)

Plan for INTEX-B flight#8 – Houston local 6 on Sunday 3/19

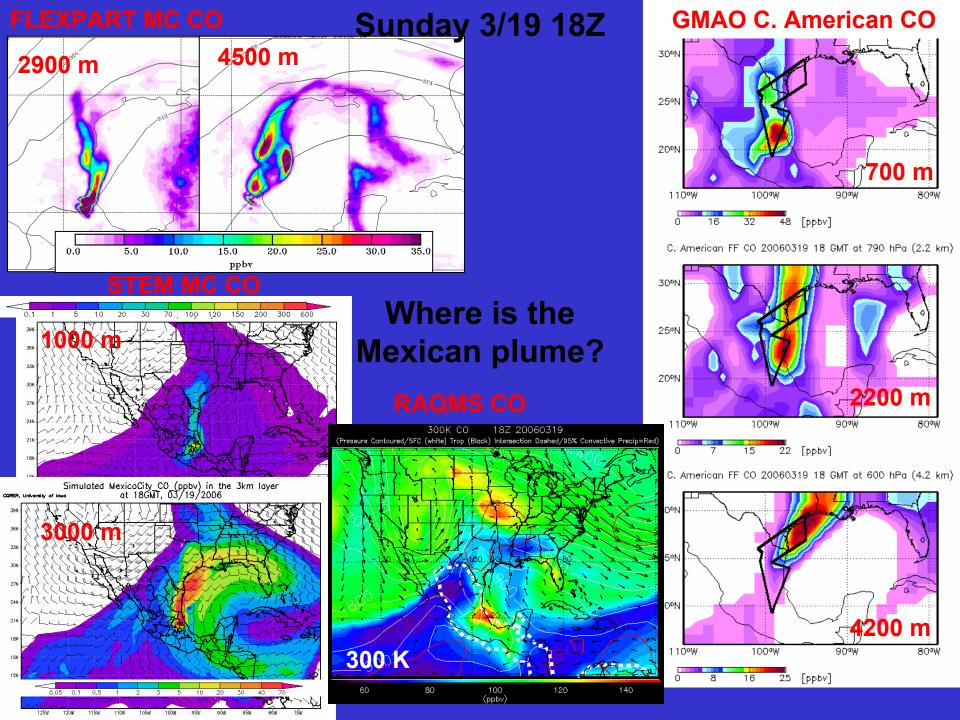
updated 3/18 @18Z

Objectives:

- MC plume over northern Mexico and Gulf
- Coordinated spiral with J-31
- Intercomparison with C-130?
- MC low-altitude and spiral
- OMI & TES validation
- Monterrey missed approach

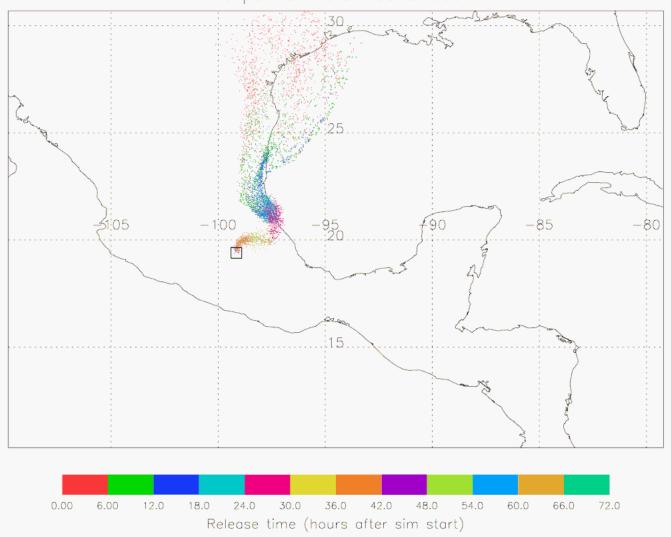


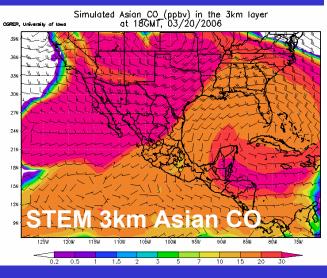
- Points 1-2: climb to 25K and spiral down into free tropospheric MC plume
- Points 2-3: free tropospheric MC plume
- Points 3-5: vertical profiling in low-altitude MC outflow, intercomp w/C-130
- Point 5 (T2): 15 → 1K spiral coordinated with J-31
- Points 5-8: MC missed approach and spiral up to 37K
- Points 8-9: TES+OMI validation track
- Point 10: Monterrey missed approach
- Points 10-1: Low-altitude vertical profiling

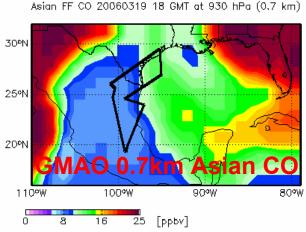


FLEXPART using CGRER lowa winds suggests early-17th pollution over N. Mexico, Texas Coast

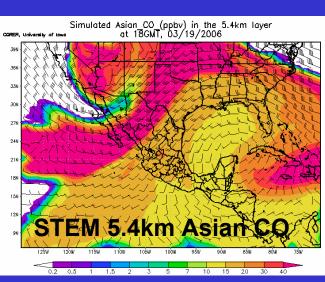
Particle positions at time 03191800 Flexpart sim start 03180000

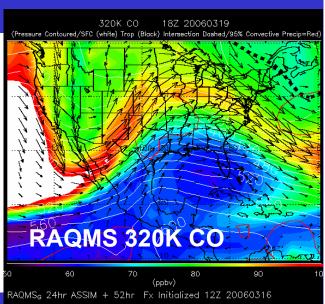


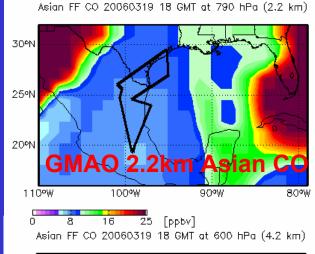


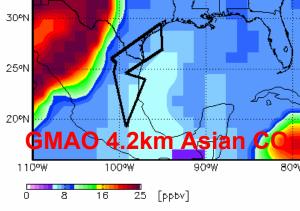


Where is the Asian plume?

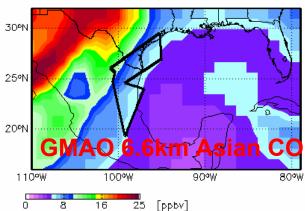


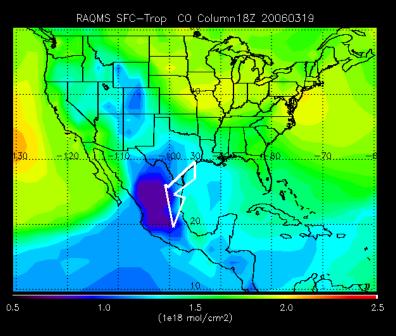


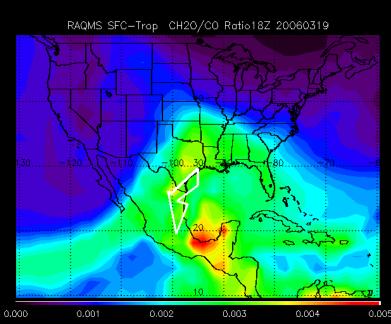




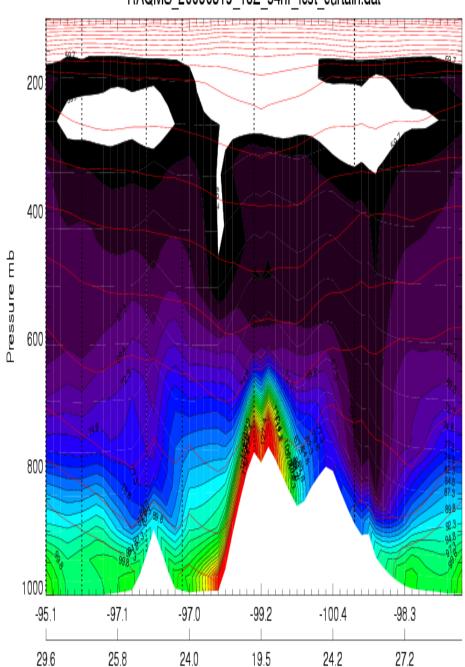
Asian FF CO 20060319 18 GMT at 430 hPa (6.6 km)

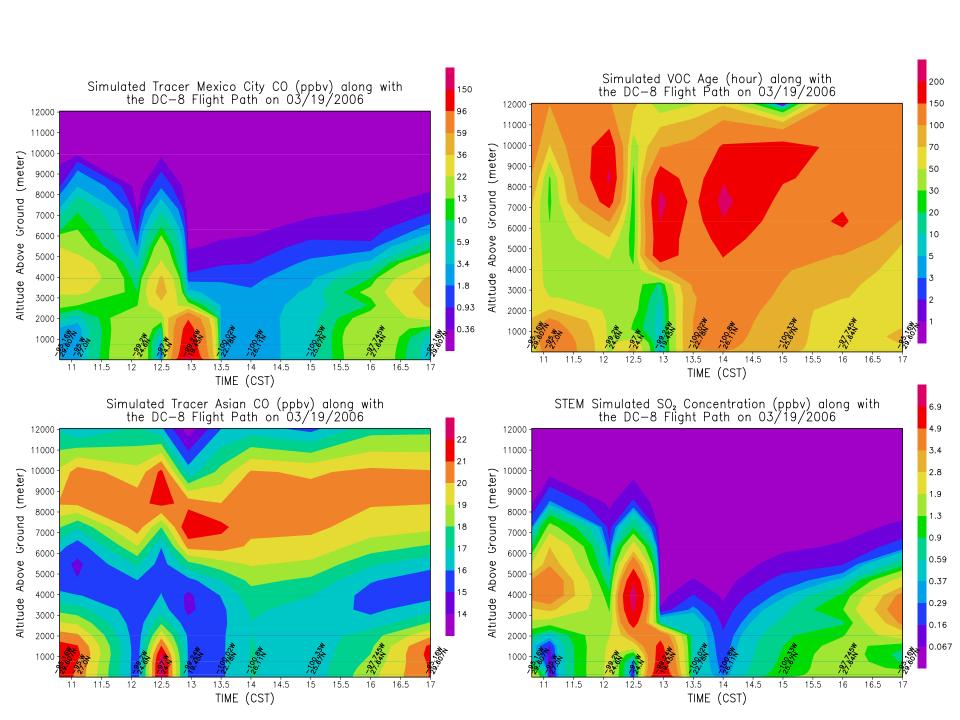


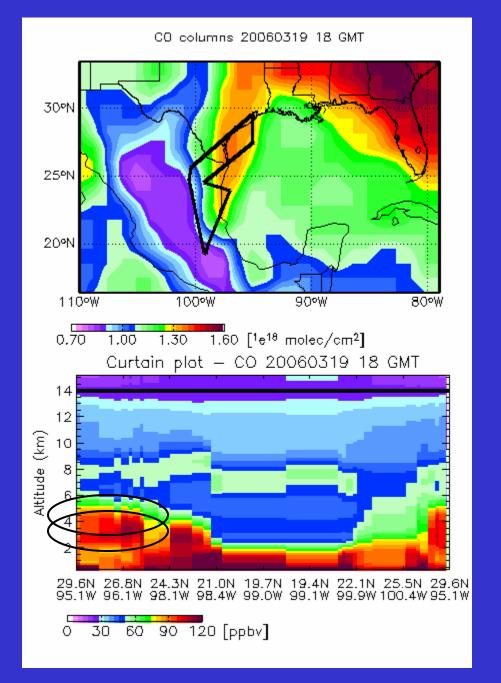








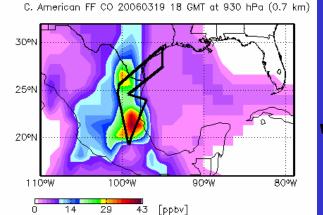


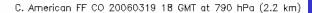


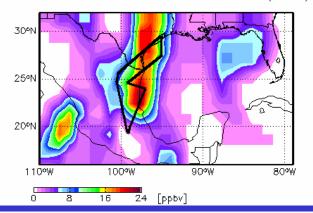
GMAO forecast: 3/19 18Z

- Northerly Mexican outflow along coast
- Veering eastward with altitude
- Mixed with biomass burning emissions
- Maybe a bit of Asian inflow at NW part of the flight track

Forecast initialized 3/18 0Z

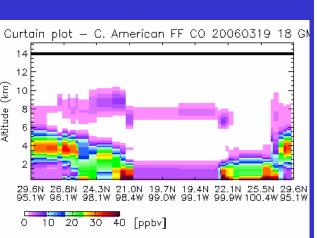




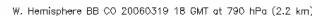


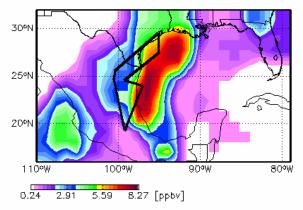
C. American FF CO 20060319 18 GMT at 600 hPa (4.2 km) 25°N 20°N 110°W 28 [ppbv]

Mexican plume veers to East with altitude

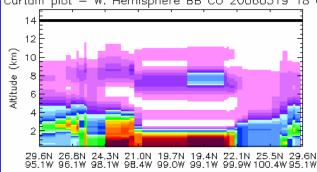


... mixed with biomass burning emissions





Curtain plot - W. Hemisphere BB CO 20060319 18 (



0.002.505.007.5010.00[ppbv]